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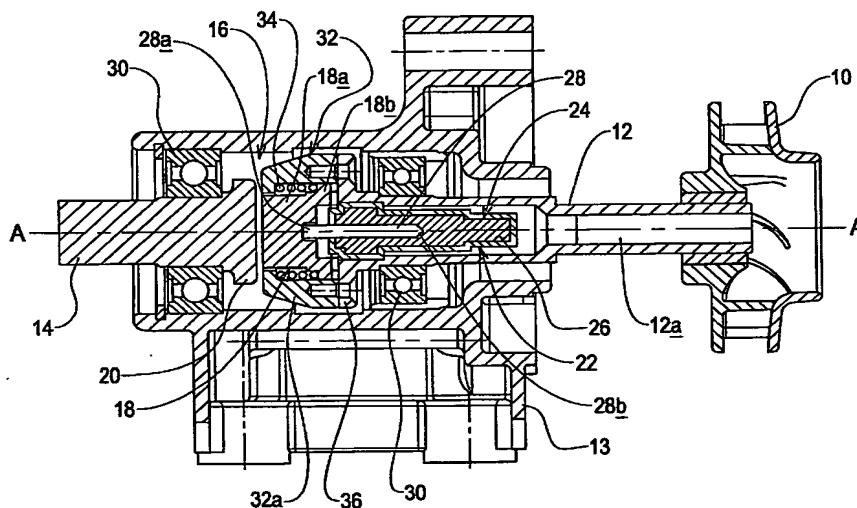
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(54) Title: **COOLING SYSTEM**



(57) Abstract: A cooling system for an internal combustion engine including a pump with an impeller (10) for pumping liquid coolant around a cooling circuit, and a drive shaft (14), wherein between the impeller (10) and drive shaft (14) there is provided a clutch (16) including first (18) and second (20) clutch members which are moveable into and out of engagement, to connect and disconnect drive from the drive shaft (14) to the impeller (10) respectively, by a temperature sensitive device (22) which includes a chamber (24) in which there is provided a material (26) which over a first, lower, temperature range is in a first state, and over a second, higher, temperature range is in a second state, the material (26) changing in volume when transforming from the first to the second state to urge the first (18) and second (20) clutch members together to transmit drive, and wherein the impeller (10) has an internal hollow (12a) into which coolant to be pumped may pass, so that the coolant is in thermal communication with the material (26) in the chamber (24).

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